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NPIC/R-110/62
July 1962

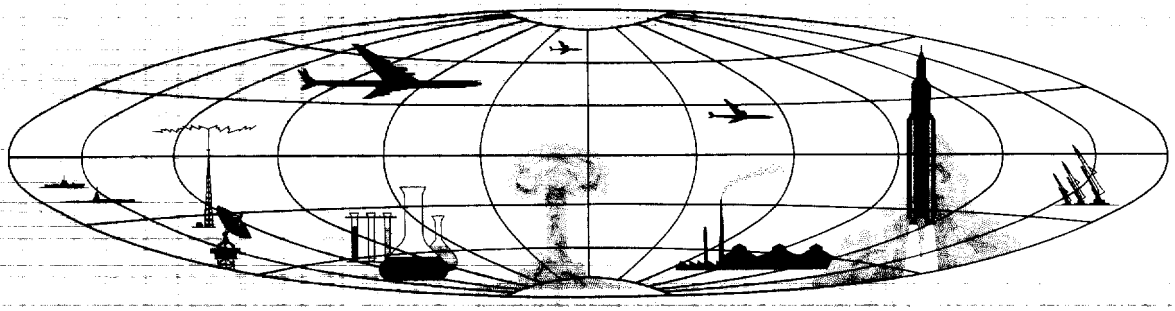
PHOTOGRAPHIC INTERPRETATION REPORT

ICBM LAUNCH COMPLEX
TYUMEN', USSR
CHANGES SINCE APRIL 1962

ARMY NAVY AIR FORCE CIA

25X1

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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The Tyumen' ICBM Launch Complex was first identified on [redacted] 25X1 photography of [redacted] It consisted then only of one launch area and a complex support facility. 1/ The next photo coverage, 25X1 [redacted] -- revealed a transfer point; a second launch area (Area B), which was previously noted as an area of unidentified activity; a third launch area (Area C); and an improved road and power-line trace extending west of Area C and terminating in woods, indicating the probable general location of a fourth launch area (Figure 1). This ICBM launch complex has been brought to its present stage of construction in less than [redacted] 25X1 since the [redacted] photography 25X1 [redacted] which shows the complex initially under construction.

LAUNCH AREAS

The three launch areas are oriented on an azimuth of approximately 300 degrees and are generally identical in configuration, even though they are in varying stages of construction. Each superficially appears to be of the Yur'ya Type 2 configuration. 2/ However, several modifications may indicate a new type of launch-area configuration. The following is an outline of these modifications (measurements given are those for Launch Area A).

The distance between the main launch-pad service roads is approximately 870 feet, [redacted]

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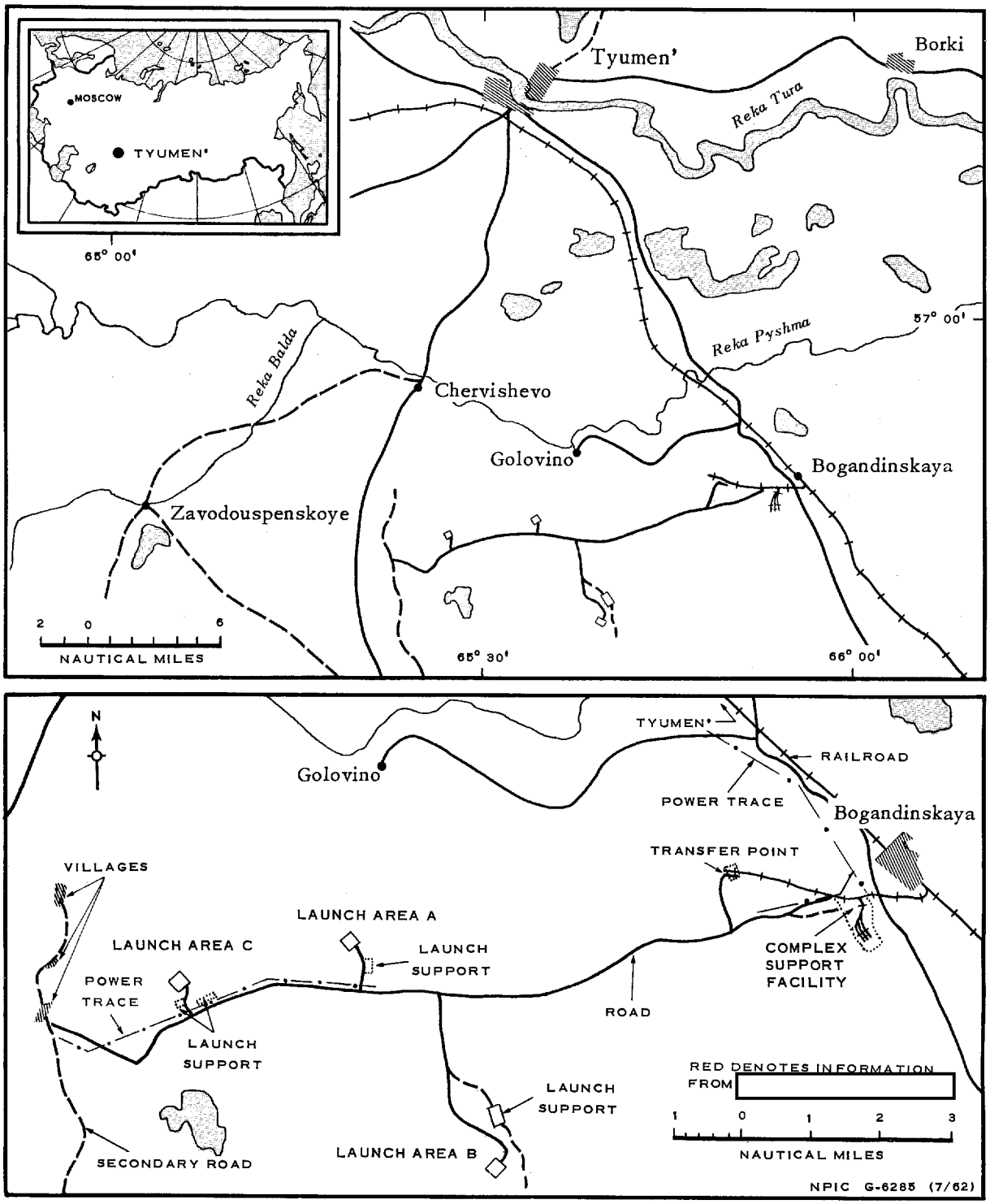

FIGURE 1. LOCATION AND LAYOUT OF TYUMEN' ICBM LAUNCH COMPLEX.

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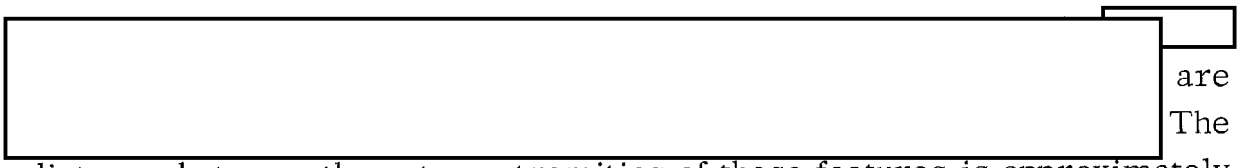
25X1 25X1



are The distance between the outer extremities of these features is approximately 1,180 feet.

The presence of an improved road to the rear of and serving the missile-ready buildings provides the access needed to give them a drive-through capability.

Each launch area has an additional component under construction approximately 1,300 feet behind the launch-pad areas. This component is served by a continuation of the offset center service road and has a "plus" configuration approximately 300 feet on a leg. Three or four small circular clearings are apparent. At Launch Area A, a small, possibly dome-shaped structure is present in one and possibly two of these clearings. No similar structures are apparent at Launch Areas B and C, but the earlier construction status may account for their absence. The exact location and servicing arrangement differ slightly at each of the three "plus" components. The orientation of one leg is generally the same as that of the long axis of the launch area.

The absence of scarring along the offset road which precedes the construction of four structures considered standard in the Yur'ya Type 2 launch areas is noted. Scarring for the probable construction of a control bunker, however, is evident.

Clearings for the missile-ready buildings indicate that each will be inside the main service road pattern and that neither will be canted.

Launch Complex E at the Tyura Tam Missile Test Center is similar in several layout characteristics. The most significant similarities are the spacing between launch positions (820 feet at Complex E and 870 feet at Tyumen' areas) and the presence of a "plus" component. At Complex E this component is 3,200 feet behind the launch positions and at Tyumen', 1,300 feet behind.

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Launch Area A

25X1 Launch Area A, first observed on photography in [redacted] is 7.5 nm, by road, west-southwest of the Transfer Point. Construction of the launch area progressed in 25X1 [redacted] from an incomplete road pattern and a partially complete launch support area to what is shown in Figure 2. Significant additions include completion of the basic road pattern, a single missile-ready building under construction and a clearing for the second, considerable clearing activity at each pad area, the "plus"-shaped component under construction with one and possibly two structures apparent, and a new loop road and at least nine additional associated buildings in the launch support area.

At the approximate location of each launch pad is a wide scar, 350 feet long, perpendicular to the service road. That part of the scar inside the road pattern may be partially attributed to construction of vehicle stalls or installation of cabling between the pads and control bunker. That part outside the road pattern cannot be accounted for at this time.

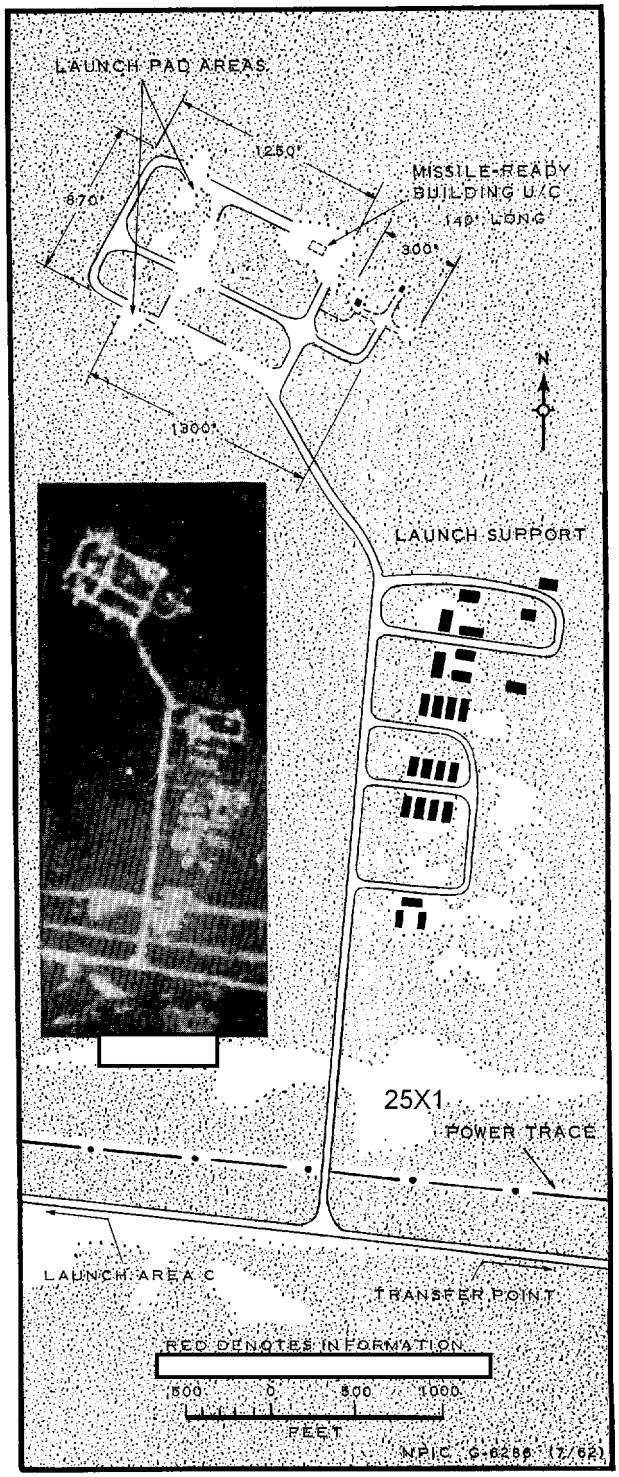

FIGURE 2. LAUNCH AREA A

25X1

The missile-ready building under construction is about 850 feet behind the right pad. The building is approximately 140 feet long, shorter than those at the Yur'ya-type launch areas (170 ±10 feet). 2/ Imperfect image quality and the early stage of construction may account for the difference. The structure does not appear to be canted; however, it is inboard of the service road to the pad area. Only the clearing for the second ready building is visible.

The "plus" component, not seen at any other deployed ICBM launch complexes, is approximately 1,300 feet behind the launch-pad areas. It is served by a continuation of the offset road. Although only three clearings are visible, a fourth is probably near the road serving this component. The leg of the "plus" parallel to the long axis of the launch area is not in line with the center road; the opposite is true at Areas B and C. The location, size, and configuration of this "plus" component, as well as the presence of possible domed structures, may indicate that the component has an electronics function, possibly guidance.

Launch Area B

25X1

Launch Area B is about 9 nm, by road, southwest of the Transfer Point. The first photo evidence of the intention to construct it was observed in [redacted] when a road and unidentified activity at its terminus were visible. The launch-area road pattern is completed, and clearings for launch pads, ready buildings, and the "plus" component are present (Figure 3). A fence line is visible along the west side of the launch area. Dimensions here generally approximate those at Launch Area A. Launch support facilities, located 2,700 feet to the east, include at least 15 structures. The offset road is right of center here, whereas it is left of center at Area A and C.

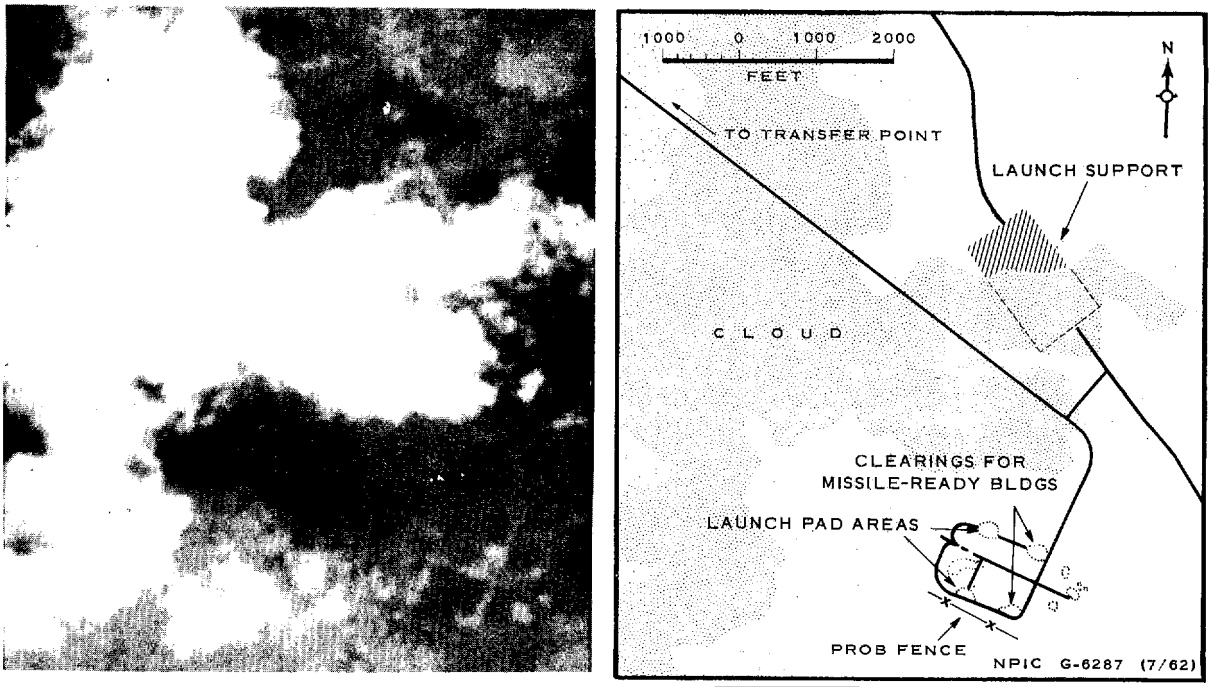

FIGURE 3. LAUNCH AREA B [redacted]

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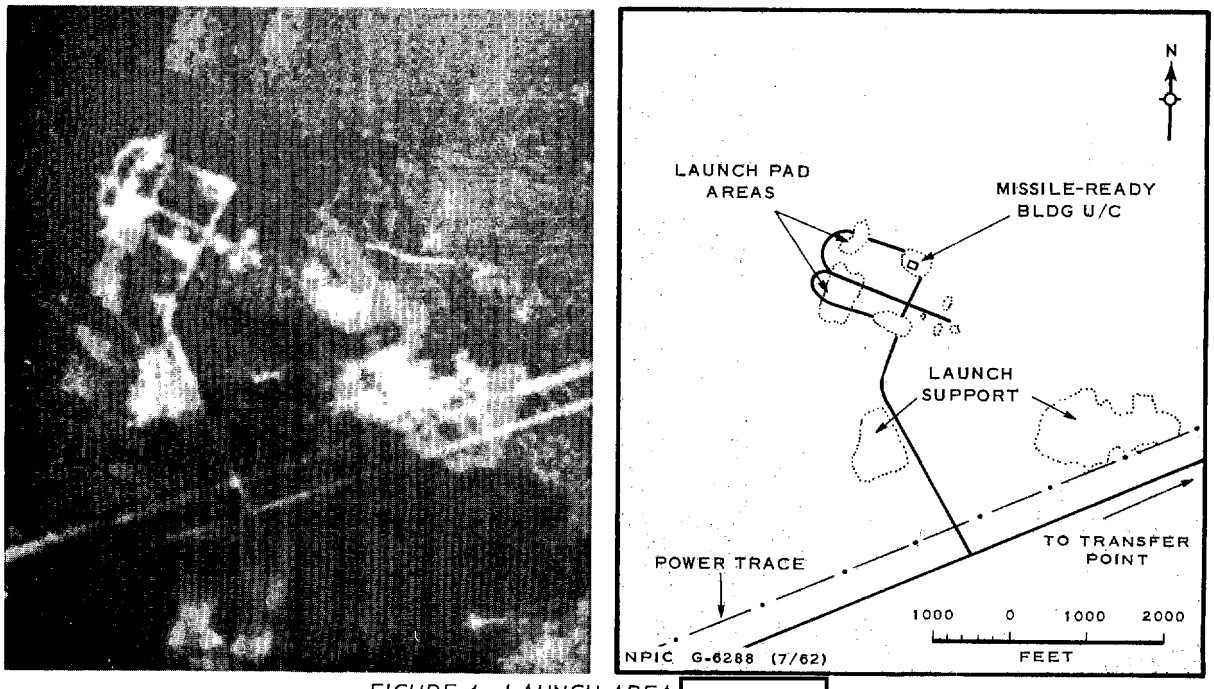

FIGURE 4. LAUNCH AREA [redacted]

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Launch Area C

This launch area, new since the [redacted] coverage, is about 11 nm, by road, west-southwest of the Transfer Point. At its present stage of construction it resembles Launch Area A in that the road pattern is completed, one missile-ready building and a clearing for the second are present, and the "plus" component is clearly evident (Figure 4). The leg of the "plus" parallel to the long axis of the launch area is in direct line with the offset center road. Launch support is provided by two nearby areas which contain a total of at least 20 structures.

COMPLEX SUPPORT FACILITY

25X1

This facility has expanded only moderately since the [redacted] coverage. Figure 5 shows the details of this expansion.

TRANSFER POINT

The rail-to-road Transfer Point, which is in a very early stage of construction, is approximately 2 nm west-northwest of the Complex Support Facility. Although details cannot be given because of its early construction stage, it appears similar in configuration to the transfer points at other Soviet ICBM launch complexes.

COORDINATES OF PRINCIPAL COMPONENTS

Launch Area A	56-52N 65-35E
Launch Area B	56-48N 65-38E
Launch Area C	56-51N 65-28E
Complex Support Facility	56-52N 65-53E
Transfer Point	56-53N 65-48E

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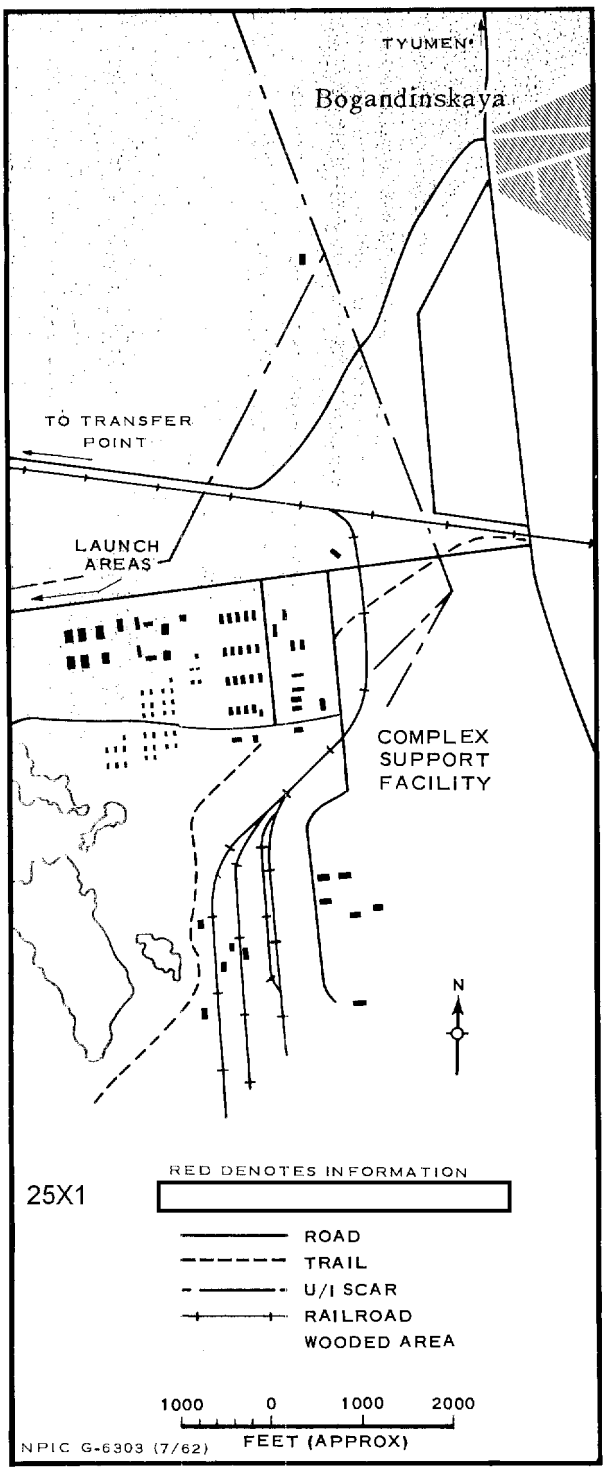

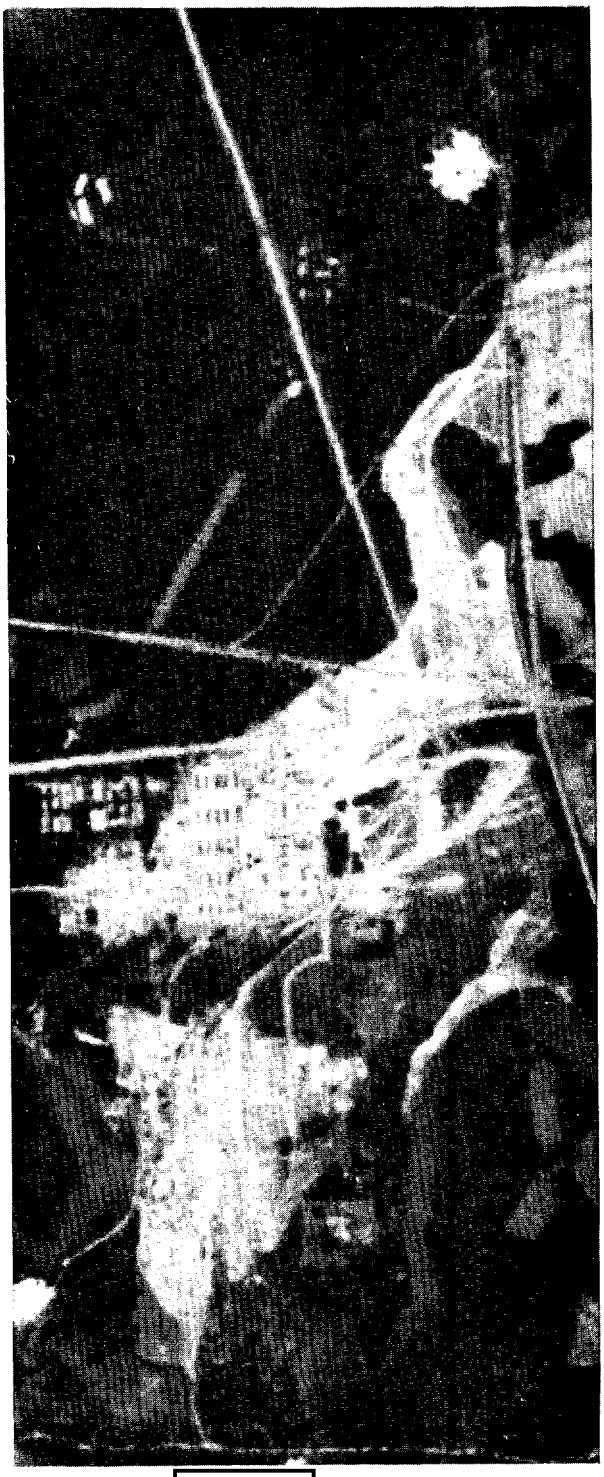

FIGURE 5. COMPLEX SUPPORT FACILITY [redacted] 25X1

REFERENCES

PHOTOGRAPHY

Mission	Date	Pass	Camera	Frames	Classification

25X1

DOCUMENTS

1. NPIC. R-73/62, ICBM Launch Complex, Tyumen', USSR, May 62 (TOP SECRET [redacted] 25X1
2. NPIC. R-80/62, Mensural Data on Missile-Ready Buildings at Soviet ICBM Launch Facilities, May 62 (TOP SECRET [redacted] 25X1

REQUIREMENT

CIA. DDI/RR/E/R-60/62

NPIC PROJECT

JN-146/62